

**MINISTRY OF SCIENCE AND HIGHER EDUCATION OF THE REPUBLIC OF KAZAKHSTAN
ABAI KAZAKH NATIONAL PEDAGOGICAL UNIVERSITY**



We train teachers who are able to anticipate the needs of modern education, based on advanced methods, national heritage and global approaches. We are increasing the prestige of the teaching profession and becoming a driver of human capital development.

EDUCATIONAL PROGRAM

6B01408 Basic military training and Physical education and sport

Department of " Basic military training"

Almaty

№	Name of discipline	Short description of discipline	Cycle	Component	Credits
1	Research skills in the field of law and anti-corruption culture	Purpose: the main provisions of the Constitution, the current legislation of the Republic of Kazakhstan. Contents: the system of public administration bodies, terms of authority, goals, methods of state regulation of the economy, the role of the public sector in the economy; financial law and finance; the mechanism of interaction of substantive and procedural law; the essence of corruption, the causes of its origin; the measure of moral, legal responsibility for corruption offenses; current legislation in the field of anti-corruption. Formed competencies: analyze and correctly apply regulatory legal acts and international norms.	GED	EC	5
2	Methods of economics and entrepreneurship research	Purpose: general principles, techniques and methods of data collection, processing, analysis, study of patterns and trends in the development of mass economic phenomena and processes. Content: the essence, forms, structure of capital. Production. Production costs. The income of production in a market economy. The concept of business. Types of entrepreneurial activity. Theory of property, social forms of management. Goods, money. Socio-economic system. The emergence of the market. The financial system. The role of the state in business development. Macroeconomics. Resource conservation. The cyclical nature of economic development. Inflation and unemployment. Kazakhstan in the system of world economic relations. Competencies: apply knowledge and understanding of the basic concepts and tools related to entrepreneurship and the needs of the world economic relations market.	GED	EC	5
3	Fundamentals of research in ecology and safe life	The purpose of the discipline is the theoretical and practical preparation of students for the ability to create healthy and safe working conditions for employees of the entire production. Content: problems of ecology, environmental protection, sustainable development. Life safety, its main provisions. Dangers, emergencies. Risk analysis, risk management. Human security systems. Destabilizing factors of modernity. Social dangers, protection from them: dangers in the spiritual sphere, politics, protection from them: dangers in the economic sphere, dangers in everyday life, everyday life. The system of life safety bodies, and the legal regulation of their activities	GED	EC	5
4	Abaytanu	Within the framework of this discipline, students study Abai's literary works, his philosophical ideas and contribution to the culture of Kazakhstan and world	BD	UC	2

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		literature. The main topics, motives and style of his work, as well as their influence on the development of the cultural and spiritual heritage of the Kazakh people, are analyzed. The purpose of the discipline is to form a full-fledged, loving humanity, humane and tolerant citizen, inspired by the humanistic teachings of Abai. Students learn to understand and appreciate his thoughts on eternal values, such as reading, education, science, art, education, and morality, expressed in his poems and epiphany. They study the main sources that influenced the worldview of the poet-thinker, and also master the concepts of honor and conscience arising from Eastern culture and Islamic philosophy.			
5	Bauyrzhanovedenie	The purpose of the discipline: education of the younger generation of patriotic feelings on the example of the life of Bauyrzhan Momyshuly. Contents: The great legacy of Bauyrzhan Momyshuly in matters of national security, senior military leadership and practical strategy. Understanding strategy as the science of preparing and conducting a common war. Momyshuly's military-tactical techniques. Hero of the Soviet Union, his life in World War II. The manuscripts of Bauyrzhan Momyshuly left to the descendants of the commandments and works.	BD	UC	3
6	Military and sports research, development and innovation	Objective: formation of research- and development-oriented thinking, the ability to develop, update and apply innovative approaches and learning technologies in the context of ongoing changes in society and the educational environment. Students can: • Develop their own teaching skills through research-based approaches • apply critical thinking when collecting and using data for software development • participate in scientific research and/or develop cooperation between universities and stakeholders • document your own research activities and present the results using various forms of communication	BD	UC	4
7	Age and physiological features of children	The purpose of this course is the formation of competencies in the field of pedagogy and didactics. Future teachers get acquainted with the formation of the psyche, its activities and patterns of development. Future teachers will be able to monitor student disputes and, accordingly, plan and implement age-appropriate educational processes and take into account the individual needs of students. Future teachers will be able to act creatively and in accordance with the situation in various situations and will be able to preserve the general education and well-being	BD	UC	3

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		of students. Future teachers who have mastered the competence will be able to: recognize the initial stages of each student, their learning potential and specific support needs; consider their individual needs regarding specific support, guidance, training and evaluation of their students; familiarize themselves with various methodological solutions to provide inclusion and specific support.			
8	Inclusive Educational Environment	The purpose of this course is the formation of competencies in the field of pedagogy, didactics and the working environment of teachers. Pre-service teachers have the ability to consider the diversity of learners and identify their individual needs in the learning / teaching process. Pre-service teachers support students' learning and inclusion in the educational process by using suitable ICT, teaching and assistive technologies. Pre-service teachers maintain students' well-being from psychological and ethical perspective in collaboration with the community (teachers, students, parents/guardians) considering the context of students' life and learning. Pre-service teachers who demonstrate competence can: identify the individual educational needs that affect participation and learning in a diverse group of students; use ICT and assistive technologies to support students' learning and inclusion in the educational process; teach values and attitudes beneficial to collaboration and inclusivity; support collaboration in the community (teachers, students, parents/guardians).	BD	UC	4
9	Methods and technologies of teaching primary military and physical education	Purpose: to increase competencies in the field of pedagogy and didactics. Students have a holistic understanding of the methodological system of education, can model strategies and technologies for solving specific pedagogical problems, planning, guidance, teaching and evaluation, are able to use knowledge, forms, methods and technologies of teaching in accordance with the conditions of a particular school and the capabilities of students. Students can: • choose pedagogical models suitable for their training • apply teaching methods creatively and in a variety of ways, taking into account the opportunities offered by technology • use a suitable learning environment in your teaching • know and apply the rules and principles of copyright and data protection	BD	UC	5
10	Educational Science and Key Theories of Learning	Future teachers study the basics of pedagogical science, such as conceptual ideas about a person, leading to various theories of learning and pedagogical models.	BD	UC	4

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		Based on the understanding of theoretical concepts, future teachers can make appropriate pedagogical choices for various educational situations.			
11	General military regulations	The purpose of the discipline: the provisions of the internal order, the general duties of military personnel and the relationship between them, the duties of the main officials and persons of daily duty. Content: The Charter applies to military personnel of the Armed Forces, other troops and military formations of the Republic of Kazakhstan (hereinafter referred to as the Armed Forces), as well as to conscripts called up for military training, during their passage, citizens discharged from military service with the right to wear military uniforms, when wearing them.	BD	UC	4
12	Assessment and Development	The purpose of this course is the formation of competence in the field of pedagogy and didactics. Pre-service teachers have a thorough understanding of the meaning of assessment in learning process and are able to provide constructive assessment in ethical manner in different phases of learning processes and engage learners in assessment. Pre-service teachers identify, differentiate, and use different assessment technologies, principles, stages, and assessment tools in their own field of expertise (including formative and summative assessment and self- and peer- assessment, etc). They can critically evaluate and analyze their understanding and practices concerning assessment and develop them further. Pre-service teachers who demonstrate competence can: • use and apply a variety of methods and tools of assessment and feedback (formative and summative assessment); • apply pedagogical principles in defining and recognizing competence levels of learners; • understand the importance and support the development of students' self- and peer-assessment skills.	BD	UC	4
13	Pedagogy and psychology of physical culture and sports	The purpose of the discipline: the formation of the necessary knowledge, skills and moral and psychological qualities of the personality of the collectives. Content: General issues of physical culture and sports of pedagogy and psychology analysis of the military education system in Kazakhstan and prospects for its development. Characteristics of the sports and pedagogical process of the part and its main structural elements, theory and technology of the holistic pedagogical process and its role in training, education and development.	BD	UC	5

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14	Pedagogical Research	Development of competencies for professional. Students master the skills of searching and critically selecting theoretical knowledge from various reliable sources, using research results in the development of their pedagogical thinking and practice, and are willing to contribute to research-based learning and education, as well as their own continuous development and professional growth. Students can: • be aware of the nature of pedagogy and its basic terminology. • recognize the central areas of research in pedagogy and understand the difference between everyday thinking and scientific knowledge. • * distinguish between cultural ideas about human nature and their significance for the work of a teacher. • adopt changes in the field of education, taking into account the prospects for their development.	BD	UC	5
15	Planning of teaching and individualization of primary military and physical education	Purpose: formation of skills of individualization of teaching, taking into account the diversity of students and the use of teaching technologies, based on pedagogical and independent research. Students can: • understand the requirements of competence, entrepreneurship and sustainable development in their pedagogical and subject area when planning and conducting training;;• plan and predict other conditions that affect learning; • apply the principles of individual learning and guidance in practice, take into account the needs of their students, support the development of their personality and self-esteem.	BD	UC	4
16	Advanced foreign language	Objective: to work out the basic competencies necessary for the successful conduct of professional activity. Content: Detailed reports on the subject. News, reports. Articles and reports on contemporary issues, modern fiction. Actively participate in a discussion on a familiar problem, explaining and defending your opinion. Competencies: to carry out professional and personal self-education, to design further educational routes, professional career.	BD	UC	4
17	Professional competencies of a modern teacher	The purpose of the discipline: the formation of knowledge about pedagogy as a science, about its methodology, tasks and levels. Contents: Methodological, axiological foundations of pedagogy. Goal setting, personality, upbringing. Age, individual characteristics. Globalization of education. Professional qualities. Patterns, principles, methods, means, forms of education. Pedagogical technologies of	BD	UC	4

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		teaching. Formed skills: the ability to analyze and solve pedagogical tasks in the process of professional activity.			
18	Professional guidelines of the teacher	The purpose of the discipline: the formation of comprehensive knowledge about the various functions of the teacher of primary military training. Content: The subject and problems of teaching methods of initial military training. Basic military training. The structure and content of primary military training at school. Classification of teaching methods of initial military training. Characteristics of the main forms of extracurricular work.	BD	UC	4
19	Psychology in Education and Concepts of Interaction and Communication	The purpose of this course is the formation of competence in the field of pedagogy and didactics; the area of competence for interaction. Pre-service teachers are familiar with the modern psychological theories and models, as well as personality functioning and individual properties. They can apply the knowledge in their teaching in diverse educational contexts. Pre-service teachers support positive development of learners by fostering dialogue, interaction, and communication in the educational process. They are able to communicate, interact, and collaborate with pupils' families as well as in various other partnership networks and create new relationships suitable for the development of their own pedagogical activity. Pre-service teachers who demonstrate competence can: • understand the basic concepts and terms of educational psychology, and the main practical applications of psychological knowledge; • understand the patterns, facts, and phenomena of cognitive and personal development of a person in the processes of education and upbringing; • apply an integrated approach to design, implementation, evaluation, and development of educational environments; • understand the concept of continuous learning as a part of the process of cognitive and personal development of a person. • apply basic communication and interaction concepts and theories at the individual, community, and network levels; • select the methods of communication and interaction that are most appropriate to facilitate learning in various forms (offline, online, blended, hybrid); • recognize the patterns of group dynamics and act in ways that promote community development and well-being.	BD	UC	5
20	Military drill	Basics of drill training. Methods of drill training. Drill reviews. Verification and evaluation of single drill. Check and assessment of drill coordination. Combat	BD	UC	5

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		techniques and movements with weapons. Drill stand with weapons. Performing techniques with a gun on site. Turns and movement with the weapon. Failure, approach to the chief with the weapon and departure from it. Receptions "lie down" ("to battle"), "stand up", rush and crawl.			
21	Digital technologies in education	Purpose: informatization of education. Modern digital technologies and their use in education. Multimedia technologies. 3D technologies in education. Classification of digital educational resources. Development of high-quality digital educational resources. Virtual reality. Digital robotics. Content: methodology of using digital educational resources in the learning process. Digitalization of learning outcomes. Problems of digitalization of extracurricular and research activities. Digitalization of administrative and managerial activities of education. Digital educational resources of AOO NIS.	BD	UC	4
22	Automotive training	Study of the design of motor vehicles, as well as elements that affect the safety of operation of transport equipment in accordance with the qualification characteristics of a specialist in this profile. Forms the level of a specialist in motor vehicles. Knowledge that forms operational environmental indicators, which largely determine the technical and production performance of motor vehicles.	BD	EC	5
23	History of physical culture	Purpose of the discipline: study of the causes and mechanisms of the Genesis of physical culture and sports, laws and specific principles of their development; arming students with historical knowledge that allows them to use them in the teaching practice of their future specialty. Content: Modern history traces the evolution of physical culture and sports from ancient times to the present day. In turn, the history of physical culture and sports, using these concepts in its scientific and educational discipline, is an important part of all sports science.	BD	EC	4
24	New approaches in teaching methods of «NVP	Modern methods of teaching NVP, extracurricular work, group work. New approaches to teaching basic military training: the use of innovative communication technologies, presentations, flipcharts, interactive whiteboards, multimedia opportunities, remote conferences, competitions, etc. the novelty of modern technology that improves the quality of learning knowledge and skills.	BD	EC	5
25	The foundations of military-Patriotic education	Purpose of the discipline: military-Patriotic education of students in extracurricular time. Content: Patriotic education of young people in Kazakhstan: innovations,	BD	EC	5

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		projects, concepts, programs. Civil-Patriotic and military-Patriotic education: modern understanding and the problem of integration. Technologies of Patriotic education of youth.			
26	Fundamentals of physical culture	The purpose of the discipline: to give students in-depth knowledge of the theoretical foundations of physical culture and sports, to teach them to practically implement its basic concepts in various educational institutions and sports organizations - at the place of future professional activity, the formation of a system of special knowledge and skills in the field of physical culture and sports, the education of pedagogical thinking.	BD	EC	4
27	Fundamentals of healthy lifestyle formation	The purpose of the discipline: to ensure the physical and mental health of the younger generation. Content: The concept of "Health", its content and criteria. There are many definitions of this concept, the meaning of which is determined by the professional point of view of the authors. A healthy lifestyle is the basis for disease prevention. It should be emphasized that it implements the most valuable type of prevention — primary prevention of diseases, preventing their occurrence, expanding the range of adaptive capabilities of a person.	BD	EC	4
28	Tactical training	The basics of modern combined arms combat. The main factors determining the nature and methods of conducting combined-arms combat. The essence and types of modern combined-arms combat. Characteristic features of modern combined-arms combat. The basic principles of conducting modern combined-arms combat	BD	EC	5
29	Methods of teaching basic military and technological training	The purpose of the discipline: the formation of comprehensive knowledge about the various functions of the teacher of primary military training. Content: The subject and problems of teaching methods of initial military training. Basic military and technological training. The structure and content of primary military and technological training at school. Classification of teaching methods of initial military training. Characteristics of the main forms of extracurricular work.	PD	UC	5
30	Methods of teaching physical culture	The purpose of the discipline: Diagnostics of final, step-by-step, intermediate and current results of the educational process, education management, education and development of students. Content: The theory and methodology of physical culture explores the content, structure, functions of physical culture, its principles, goals,	PD	UC	5

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		objectives, means, develops a conceptual apparatus, and also studies the goals, objectives, means and methods and the content of types of physical culture.			
31	Organization and holding of sports games competitions	The purpose of the discipline: to familiarize with the basic rules of the organization and conduct of competitions in sports games. Content: Drawing systems. Developing: to develop the ability to freely navigate the drawing systems and organize competitions correctly. In the practice of conducting competitions in sports, two main draw systems are used: round-robin and elimination.	PD	UC	4
32	Theory and methods of teaching basic sports (school curriculum)	The purpose of the discipline: mastering the technology of professional activity of a teacher of physical culture and sports. Content: The ability to conduct training sessions in basic sports, taking into account the characteristics of those engaged on the basis of the provisions of didactics and theory and methodology of physical culture and the requirements of educational standards; the ability to assess the physical abilities and functional state of students, the technique of performing physical exercises.	PD	UC	5
33	Automated systems in the organization of combat training	Automated systems in the organization of combat training of students of the military training center at a higher educational institution in tactical disciplines: "General tactics", "Fire training", "Radiation, chemical, biological protection", "Military topography". The textbook contains basic information about the organization and conduct of combined arms combat, general concepts about ballistics and the theory of shooting from small arms and grenade launchers, about weapons of mass destruction and protection against it.	PD	EC	5
34	Military engineering training, military topography, management and communications	Fortification equipment of the areas occupied by the troops. Camouflage coloring. Construction of engineering barriers: mine-explosive and non-explosive barriers. Methods and tools for assessing the terrain. Field measurements to ensure the combat activity of troops. Maintaining the work cards of the commanders. Combat readiness of units. Management requirements.	PD	EC	6
35	Military medical training	The purpose of the discipline: Preserving the health of military personnel, personal and collective hygiene. Content: Personal protective equipment and rules for using them. Sanitary instructor and unit attendants. Medical military bag SMV. First aid for injuries and bleeding. The concept of a wound. Information about blood circulation.	PD	EC	5

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		Types of bleeding. Consequences of bleeding. Methods and means of temporary stopping bleeding.			
36	Military-pedagogical management	General information about management and management. Military-pedagogical management: the essence and specifics. The purpose of military-pedagogical management. The main task of military pedagogical management in a military university. Theoretical foundations of the technological, social and psychological level of management. Strategic, current and long-term planning of military pedagogical education.	PD	EC	5
37	Military-applied training	The formation of a common culture, spiritual and moral, civil, social, personal and intellectual development, self-improvement of students, ensuring their social success, the development of creative abilities, the preservation and strengthening of health, ensuring the planned results, taking into account the individual characteristics of its development and state of health, the formation and development of personality.	PD	EC	5
38	Weapons and military equipment of the world	Formation of skills for studying and using military equipment. Combat training of the armed forces. Solitary training, statutory exercises, guard duty, shooting, tactical exercises, field engineering, training maneuvers — all this, each in its own way, sometimes indirectly, then directly, contributes to their combat training and increased combat readiness.	PD	EC	6
39	Therapeutic physical culture	Purpose of the discipline: mastering treatment methods that include the use of physical exercise and natural factors of nature Content: Physical therapy studies the changes that occur in the patient's body under the influence of various physical exercises, which in turn allows you to create scientifically based from a clinical and physiological standpoint methods of using physical therapy.	PD	EC	5
40	Methods of teaching self-defense and hand-to-hand combat	To show, enrich knowledge and skills, to show certain skills acquired in the lessons of FC, NVP and in the process of practical training under the program of military-patriotic education, to demonstrate physical training received in physical education lessons and during sports. Promotion and development of a healthy lifestyle, engaging in military-applied sports. Fostering students' sense of collectivism, camaraderie, friendship, responsibility and mutual assistance.	PD	EC	5

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41	New approaches to learning and assessment in school	Assessment at school, the main types and concepts of educational technology. Understanding the principles of determining the level of knowledge according to the assessment methodology. Modern approaches to the evaluation of learning outcomes. A new look at the assessment of learning. Modern approaches to the assessment of students' academic achievements and its ways of implementation.	PD	EC	5
42	Fire training	The purpose of the discipline: the formation of comprehensive knowledge and practical skills in the field of fire training Contents: history of firearms development. Modern small arms and granotomet. The main provisions of the internal ballistics. Dispersion of bullets when shooting. Weapons of a motorized rifle platoon of the Kazakh army: AK-74, RPK-74, RPG-7V, SVD, PM. Combat characteristics.	PD	EC	5
43	Fundamentals of military robotics	Purpose of the discipline: study the basics of military robotics, various technologies, integrating the knowledge and skills obtained in the subjects of natural science Content: about the prospects of advanced robotics and engineering systems design, about new approaches to designing, modeling and programming robots for solving combat tasks.	PD	EC	5
44	Legal aspects of the use of information technology, security and protection of information	The purpose of the discipline is to promote the formation of professional competence of a teacher through the formation of a holistic view of the role of information technologies in the modern educational environment and pedagogical activity on the basis of mastering their capabilities in solving	PD	EC	5
45	Physical training of pre-conscription youth	The purpose of the discipline: the development of physical training of young people of pre-conscription age. Content: "Fundamentals of physical training of young people of pre-conscription age: general and special training." is the provision of physical maturity, health promotion, preparation for a high healthy lifestyle, the formation of practical skills and abilities. General physical training (OFP) is an educational process aimed at preparing the functional capabilities of the body, skills, qualities, skills, and physical preparation of a person to perform many actions.	PD	EC	4
46	Philosophy of military professional education	Philosophy in the system of culture. Philosophy as a cognitive activity, as a cognitive attitude, as a form of social and individual consciousness. Philosophy as a worldview. Philosophy as a science: object, subject, structure, methods, functions. The main problems of philosophical knowledge: the origin, essence, content,	PD	EC	5

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		structure and patterns of development of phenomena and processes of the world around a person in all its diversity. The specifics of philosophical knowledge.			